

AMENDMENTS TO THE CLAIMS

This complete listing of all claims will replace all prior versions, and listings, of claims in the present application. This complete listing of claims begins below.

COMPLETE LISTING OF ALL CLAIMS

I claim:

Claim 1 (Currently Amended): A system ~~and its corresponding device~~ to measure ~~instantly and permanently~~ the ultraviolet solar radiation, ~~characterized in that it further~~ compris[~~es~~]ing a device to display by means of colored lights and a means to detect ultraviolet radiation (3),

where the device to display comprises ~~with preferably~~ five different colored lights[~~,,~~] for indicating a level of radiation detected by the means to detect ultraviolet radiation ~~the indication of the instantaneous radiation measured and displayed in accordance with the recommendations, nomenclature, and correlation color index established by the World Health Organization (WHO);~~

where[~~in~~] the ~~main~~ means to detect ultraviolet radiation comprises solid state electronics elements with a detector head having a semiconductor detector with a UV filter (5), a ~~Teflon~~ polytetrafluoroethylene diffuser (4), an amplifier, and a metallic enclosure (6), wherein said amplifier has a standard transimpedance configuration, ~~preferably wherein said amplifier is~~ a low noise operational amplifier with a low sensitivity to temperature, wherein the detector head (4) is external and it is connected by means of a cable to the rest of the system.

Claim 2 (Currently Amended): The system according to claim 1, ~~characterized in that it includes means to detect a signal that contains ultraviolet radiation, means for the processing of this signal, and means for the display of this processed signal to be visible from a distance in a place of public or private access~~ wherein the detector head has an active area, where the active area is larger than one millimeter squared.

Claim 3 (Currently Amended): The system according to claim 1, ~~characterized in that it~~ wherein the filter enables the detection of ~~allows to detect the UV-B solar radiation by means of a filter added to the components mentioned in claim 1 such that~~ [[the]] a total spectral response of the system corresponds to [[the]] an erythema action curve.

Claim 4 (Currently Amended): The system according to claim 1, ~~characterized in that~~ wherein the means to detect and process the information or data are solid state electronic elements.

Claim 5 (Currently Amended): A ~~system and its corresponding device to measure instantly and permanently the ultraviolet solar radiation, characterized in that it~~ comprises comprising an ultraviolet detector head and an electronic processing unit (1), ~~which~~ where the ultraviolet detector head is electrically connected to [[an]] the electronic processing unit, where the electronic processing unit receives a signal from the detector head, of the received signal (2), which ~~where the electronic processing unit converts~~ [[it]] the signal to a display signal ~~adequate to show the UV information in a public or private place by means of public ads, poster advertising, road boards, billboards, such that is clearly visible from a distance, where the detector head has an active area, where the active area is larger than one millimeter squared.~~

Claim 6 (Currently Amended): The device according to claim 5, further comprising a display system, where the display system receives the display signal from the electronic processing unit, where the ~~characterized in that said display system is~~ luminous, ~~it can be located in any place of public or private access and it also can contain publicity or advertising.~~

Claim 7 (Currently Amended): The device according to claim 5, ~~characterized in that~~ wherein the detector head [[has]] comprises analog electronics and a circuit for analog to digital conversion.

Claim 8 (Currently Amended): The device according to claim 7, ~~characterized in that~~ wherein the detector head comprises a semiconductor detector with an UV filter (5), a ~~Teflon~~ polytetrafluoroethylene diffuser (4), an amplifier and a metallic enclosure (6).

Claim 9 (Currently Amended): The device according to claim 8, ~~characterized in that~~ wherein said amplifier has a standard transimpedance configuration, ~~preferentially and is~~ a low noise operational amplifier with low sensitivity to temperature.

Claim 10 (Currently Amended): The device according to claim ~~[[5]]~~6, ~~characterized in that~~ wherein the means to ~~display the ultraviolet radiation information mentioned~~ consists of display system comprises a set of five colored lights or ~~leds array~~ (3), ~~colored flags, panels of liquid plasma/crystal TV, numeric indicators, or indicating panels of numbers and other similar means,~~ the color equivalency being the same as recommended and established by the World Health Organization (WHO).

Claim 11 (Currently Amended): The device according to claim 10, ~~characterized in that~~ wherein ~~[[it]]~~ the display system is located in ~~private places such as~~ selected from the group consisting of schools, private houses, swimming pools, or stadiums ~~or other similar places; wherein it displays by means of preferably five colors indicating the risk levels of the ultraviolet radiation according to the those established by the World Health Organization (WHO).~~

Claim 12 (Canceled)

Claim 13 (New): The device according to claim 6, wherein the display system comprises a set of five colored flags.

Claim 14 (New): The device according to claim 6, wherein the display system comprises numeric indicators.

Claim 15 (New): The device according to claim 6, wherein the display system is into an object selected from the group consisting of public ads, poster advertising, road boards, and billboards.